ART

0023397

MEETING MINUTES

Subject: Expedited Response Action Weekly Interface

TO: Distribution BUILDING: 450 Hills

FROM: W. L. Johnson CHAIRMAN: W. L. Johnson

Dept-Operation-Component	Area	Shift	Meeting Date	Number Attending
Environmental Engineering	3000	Day	September 14, 1992	13

M. R. Adams	H4-55	EPA	B5-01
M. V. Berriochoa	B3-30	P. Beaver	
H. D. Downey*	L4-92	P. T. Day	
D. R. Ellingson*	B1-35	D. R. Einan	
J. K. Erickson	A5-19	D. A. Faulk*	
W. F. Heine	B2-35	L. Gadbois*	
G. C. Henckel*	H4-55	P. S. Innis*	
R. E. Lerch	B2-35	D. R. Sherwood	
S. N. Luke*	H4-57		
R. G. McLeod*	A5-19	Ecology	fax
P. M. Pak*	A5-19	J. Donnelly	
J. K. Patterson	L4-92	L. Goldstein	
L. T. Pedersen*	X5-52	R. L. Hibbard	
D. B. Smet*	X5-52	D. Goswami*	
J. T Stewart	A5-20	J. Phillips*	
R. K. Stewart	A5-19	D. D. Teel	
T. M. Wintczak	L4-92		
EDMC	H4-22		
ERAG Route			
Field File Custodian	H4-55		
WLJ File/LB			

*Attendees

The weekly interface meeting on the expedited response actions (ERAs) was held to status the ERAs for the U.S. Department of Energy, Richland Field Office and the regulators. The meeting was conducted in accordance with the attached agenda. Actions were formally reviewed and the attached action item list was updated.

All eight ERAs were discussed and their sta tus summarized. A presentation on the 618-11 Burial Ground was made and the viewgraphs are attached. Final comments on the Sodium Dichromate Sampling Plan were reviewed and resolved to the regulators satisfaction. Sampling will proceed on September 17, 1992. A proposed strategy for dealing with waste from the CCl_4 pipeline inspection was presented and is attached. This issue will be closed out at a future meeting.

Attachments:
1. Agenda
2. Action Item List
3. Decisions, Agreements & Commitments
4. Expedited Response Action Weekly Report
5. Viewgraphs for the 618-11 Burial Ground ERA.

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WEEKLY ERA INTERFACE AGENDA

SUBJECT: STATUS OF THE EXPEDITED RESPONSE ACTIONS

DATE: September 14, 1992

- GENERAL ISSUES
  - ERA Interface Action Item review

- INDIVIDUAL PROJECT STATUS
  - ✓ 618-9 Burial Ground

  - 200-W Carbon Tetrachloride
    - ✓ o Site characterization status (pipeline inspection)
    - o Operations status (12 hour operations at 100 cfm)
    - o Procurement & design activities for next two units
    - o Integrated demonstration activities

  - Sodium Dichromate
    - ✓ o Project plan (SAP) comments review
    - o Safety analysis and NEPA ongoing

  - Riverland
    - ✓ o Planning underway
    - o NEPA needs to be pushed

  - Pickling Acid Crib
    - ✓ o Planning underway
    - o SAP under development

  - ✓ 618-11 Burial Ground
    - o Proposed activities for FY 93

  - ✓ N-Spring
    - o Internal discussions ongoing

  - 1100 Area/ALE ERA to be proposed by Army Corps of Engineers

  - Wahluke Slope
    - ✓ o Project plan and SAPs comment resolutions, safety analysis ongoing, GPR complete, NEPA approved

- OTHER ISSUE

- SUMMARY OF ACTION ITEMS

- SIGN-OFF ON ANY DECISIONS, AGREEMENTS, OR COMMITMENTS

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EXPEDITED RESPONSE ACTION INTERFACE MEETING

-ACTION ITEMS-
September 14, 1992

ORGANIZATION	ACTION ITEM
WHC	WHC will prepare an outline detailing proposed activities, technical issues, and schedules for the 618-11 Burial Ground. This outline will be presented at an upcoming ERA interface meeting. (*closed*) Will be provided on 9/14/92.
WHC	WHC will provide DOE, EPA, and Ecology copies of the GPR reports for Riverland, North Slope and Sodium Dichromate ERA sites when they become available. (open)
WHC	WHC to develop a draft plan for removal and storage of oil soaked soil at the grease rack. (open)
WHC	WHC will provide a briefing on the Integrated Demonstration activities planned for next fiscal year. (open) Briefing will be conducted at the September 21, 1992, Interface Meeting.
WHC	WHC will forward copies of the Proposed ERA Site Selection document to the information repositories. All future correspondence and documents concerning the selection of new ERAs will also be sent to the information repositories.

EXPEDITED RESPONSE ACTION INTERFACE MEETING

-DECISIONS, AGREEMENTS, & COMMITMENTS-
September 14, 1992

DECISIONS:

AGREEMENTS:

EPA and Ecology agreed to the revision of the Sodium Dichromate Sampling Plan, contingent upon ~~their~~ the incorporation of their comments provided (attached). Agreement was reached to begin sampling on Thursday, September 17, 1992. The document will be formally transmitted to the regulators as soon as possible.

COMMITMENTS:

for RKS
9/14/92
DOE Representative

9/14/92
EPA Representative

9/14/92
ECOLOGY Representative

9/14/92
WHC Representative

The undersigned agree to the following in principle and practice:

Contaminated excavation soils, originating from the temporary excavation of lines 1035 and 1036 in support of the Site Characterization Phase of the 200 West Carbon Tetrachloride ERA, may be returned, untreated, back to the excavation as long as such soils are controlled in the following manner:

1. The excavation site and the temporary excavation soils shall be appropriately monitored for organic and radioactive contamination during the excavation phase.

2. Contaminated soils may be stored at the site and while in storage shall be segregated into soil piles by contaminant type.

3. Stored soils shall be controlled in a fashion to minimize fugitive dust and control the spread of contamination.

4. Such soils may be returned to the excavation in the order in which they were removed from the excavation so as to leave the site in a safe and non-contaminated condition.

Weekly Report, Week Ending September 11, 1992
EXPEDITED RESPONSE ACTIONS
Technical and Management Contact - Wayne L. Johnson, 376-1721
Environmental Division

North Slope Expedited Response Action - The ERA project plan and military landfill sampling plan were transmitted to RL and the regulatory agencies. Regulator comments are being dispositioned. The site tour with a former employee who worked at the Nike missile sites has had to be rescheduled. A sampling plan which focuses on waste sites other than the military landfills has been drafted. This plan includes sampling the homestead cisterns as well as fuel handling areas at the Nike missile sites and the 2,4-D landfill.

Pickling Acid Crib Expedited Response Action - Historical research has indicated that the site was used to acid etch (pickle) the Zirc-alloy tubing during the construction of N-Reactor (late 1950's). Research has not identified the use of the facility in the '43-'45 time frame, or if the cribs existed then. A search is underway for more historical information about the facility.

Riverland Railroad Site Expedited Response Action - Work continues on project document preparation. Project plan transmitted to regulators. Plant forces work reviews received for characterization activities.

Sodium Dichromate Expedited Response Action - Project plan revised to incorporate comment dispositions.

N-Springs Expedited Response Action - IT Corporation will prepare an ERA project plan to identify potential alternatives and the selection criteria.

618-11 Burial Ground Expedited Response Action - Fiscal year 1993 cost account plan has been drafted. Historical information is being reviewed in preparation for a September 14, 1992, presentation at the ERA Weekly Interface Meeting.

Carbon Tetrachloride Expedited Response Action/Volatile Organic Compounds - Arid Integrated Demonstration (PE4AA) -

BASELINE MONITORING

Relatively low pressure (29.1 in Hg) on September 3, 1992, yielded only three sample points with detectable organic vapors. On September 8, 1992, low pressure (29.0 in Hg) produced 18 measurements of organic vapor. Measurements were most active in the Z-1A, Z-12, and Z-18 areas.

VAPOR EXTRACTION SYSTEM (VES) OPERATIONS

The vacuum blower motor was replaced late friday, September 4, 1992, and checked for proper rotation. Operations resumed on September 7, 1992.

The process control system has not yet been ordered, the Cost Account Plan (CAP) for its funding is routing for approval. Procurement of three new carbon tetrachloride instruments are also on this CAP. Both of these items are critical path items for 24 hour operations. Delivery of the process control system is expected six weeks after order is placed.

Purchase order documentation for the VES units which includes all the evaluations, the trip report accepting Barnebey & Sutcliffe as the low bidder, and an alteration to the purchase requisition have been completed. This documentation will be presented to the capital review board after which Equal Employment Opportunity approval from RL will be requested. It is expected that award will be made by month end.

Operational Date	Disposal Facility	Amount of CCl_4 Removed (lb)	Average CCl_4 Conc. (ppm)	Total Operational Time (hr)	Average Flowrate (SCFM)
8/13 - 8/19	216-Z-1A	65.0	42	42	160
8/19 - 8/25	216-Z-1A	125.0	583	47	190
8/26 - 9/2	216-Z-1A	79.34	459	32	210
9/3 - 9/9	216-Z1-A	21.3	580	9	175
TOTAL		954.3			

9211-2-17-3

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ABSTRACT

This series of viewfoils was created by C. D. Kramer for a presentation at the 9/14/92 Expedited Response Action Interface Meeting. It presents a tentative outline of current proposed activities, technical issues and schedules for the 618-11 Burial Ground Expedited Response Action.

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618-11 Burial Ground Remediation Expedited Response Action

- Presentation by Chris Kramer, Scientist
  WHC Environmental Restoration Engineering
  9/14/92

- Project Goal: Protect human health and the environment from waste disposed of at Hanford's 618-11 Burial Ground

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PRESENTATION OUTLINE

- Historical Synopsis
- Primary Issues
- Proposed Activities/Schedules

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HISTORICAL SYNOPSIS

- Also known as the "Wye Burial Grounds"

- Located immediately adjacent to WPPSS Nuclear Plant #2 (See Map &/or Diagrams)
  - 375 x 1000 ft
  - Long axis runs E-W
  - Elevation: approximately 445 ft
  - Distance to river 3½ mi (Elev. 350 ft)

9 2 1 2 5 1 1 7 2 5

- Consists of three parallel trenches (50 x 900-ft), 54 pipe storage units (22-in x 15-ft), and two (or three) caissons (8-ft diameter x 10-ft deep)

- The Final EIS for Disposal of Hanford Defense HL, TRU and Tank Wastes identifies this site as the only buried suspect TRU waste off the 200 Area plateau

- Opened in 1962

9 2 1 2 5 5 1 1 7 2 6

- Used until Dec. 1967, possibly until 1970 when burials were consolidated on the 200 Area plateau

- Waste originated from 300 Area facilities (Including 308, 309, 325 and 327 buildings)
  - Radioactive components include strontium, cerium, cesium, promethium, uranium, neptunium, plutonium, other high-heat isotopes and fission products.

- WHC-SD-EN-PD-003, Rev. 1 states it has been estimated that approximately 1 kg of Pu is in the burial grounds

- Packaged in a variety of cans, cardboard boxes, 55-gallon drums, cement burial boxes and other containers

- Documented radioactive surface contamination from loss of containment during or post-disposal
  - Multiple incidents

- One example--A Dec '64 fission product contamination over 9000 ft^2, (Reading 35 mrem/hr)

- Site was surface stabilized in 1983.

- The site is surveyed for surface contamination on a semi-annual basis. No surface contamination was reported in '89-90 survey's (WIDs database).

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PRIMARY ISSUES

- **EXISTING DATA--Development of an understanding of the waste site**
  - **Identification & analysis of information about the historical wastes**
  - **Physical site characteristics**
  - **Historical context/identification of concerns**
  - **Assess quality**

- **FUTURE USE--Necessary for knowing if the site is sufficiently clean**

- **TECHNOLOGY & RESOURCE IDENTIFICATION--**

  Shows the path toward achieving our objectives

  - **HDW-EIS identifies WRAP as a necessary facility for safely handling and properly managing TRU waste**
  - **WRAP has no current remote handling (RH) capability**
  - **Retrieval of similar waste in 200 West caissons has been estimated as requiring a $17M caisson recovery building (a 1986 estimate)**
  - **Onsite handling/sampling development needed**

- Lab characterization capability for RH TRU waste

- **WASTE SHIPMENT**
  - Radionuclide data on all Hanford RH TRU is inadequate for meeting current shipping requirements
  - Special packaging may be need to be designed and approved
  - Characterization will have to be sufficient for safely packaging, handling, transportation and acceptance at the chosen destination

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- **WASTE DISPOSAL**
  - Determine who will take the waste
  - Plan for safe storage and/or eventual processing
- **IDENTIFICATION/COMPLIANCE WITH APPLICABLE ORDERS, REGULATIONS & LAWS**
- **OPERATIONAL IMPACTS**
  - Public (WPPSS)
  - Environmental

PROPOSED ACTIVITIES & SCHEDULES

- WHC-SD-EN-PD-003, Rev.1, 618-11 Burial Ground Expedited Response Action Proposal -- Sets forth a 3 phase approach to the Action

- PRELIMINARY INVESTIGATION
  - Currently Activities include:
    - Orientation
    - Site reconnaissance
    - Allocation of funding for FY93
    - Identification of personnel for FY93 efforts

9 2 1 2 3 5 1 1 7 3 4

- Vital activities will begin in FY93

- Project management plan enhancement

- Historical research
  - Prime focus
  - Complete draft report by 3/31/94

- Request for site Cultural Resource Review
  - Initiate 10/92

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- Request for preparation of NEPA documentation
  - Start 10/92
  - Scope of activities TBD

- Environmental site assessments for endangered/threatened species
  - Fall & spring visits anticipated

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- No intrusive activities are envisioned for FY93 however non-intrusive activities may be implemented pending appropriate pre-job planning and safety evaluations

- **PROPOSAL DEVELOPMENT & RECOMMENDATION**

  - Regulatory Analysis & WHC Transportation contact

  - Commence preliminary safety analysis report for remedial activities

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- Initiation prior to completion of historical data documentation
- Will assist in defining further operational requirements
- Draft by 9/30/93

- Initiate development of a Waste Storage/Disposal Plan for exhumed waste concurrent with PSAR development

- EE/CA First Draft completed 6/93

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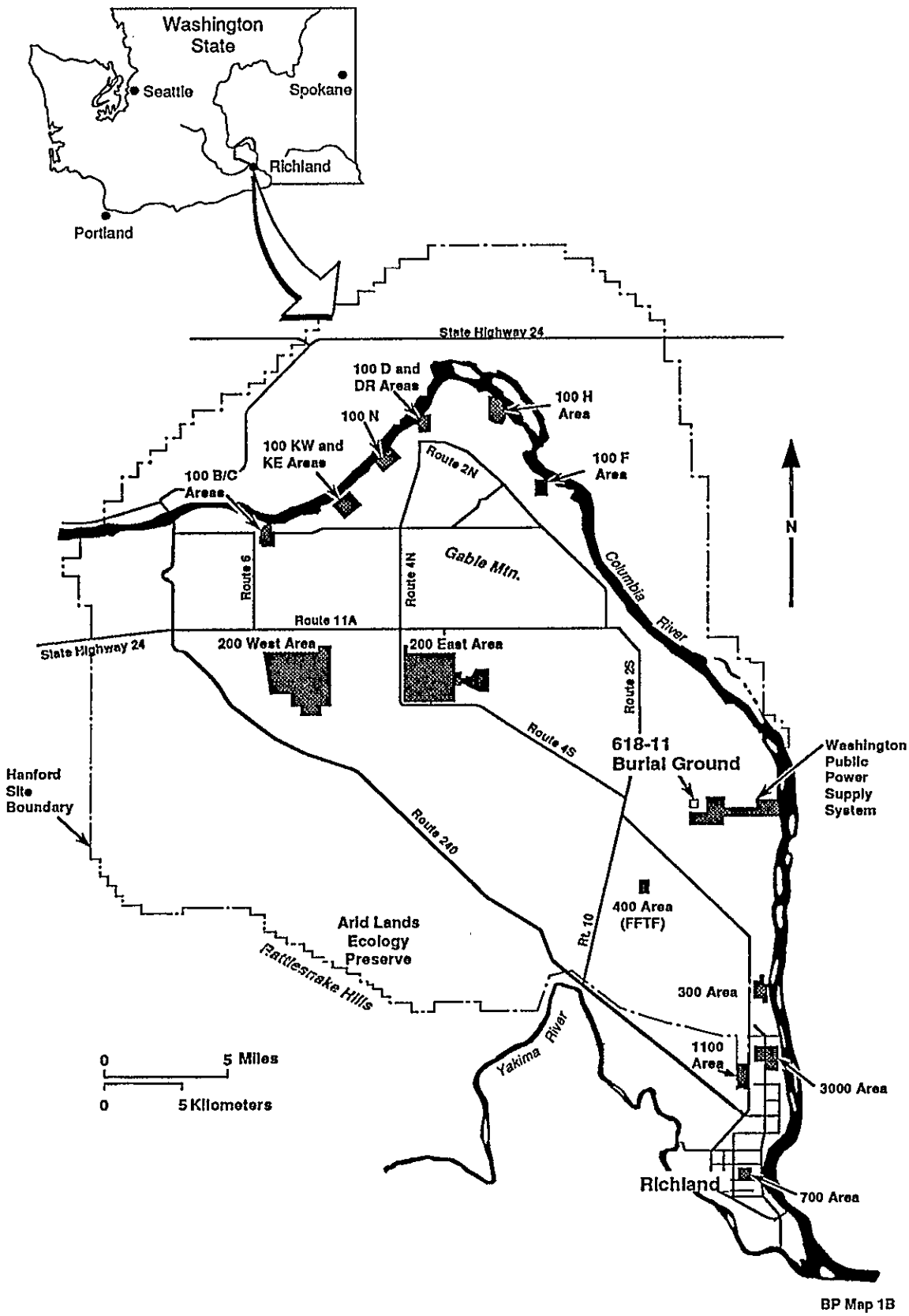
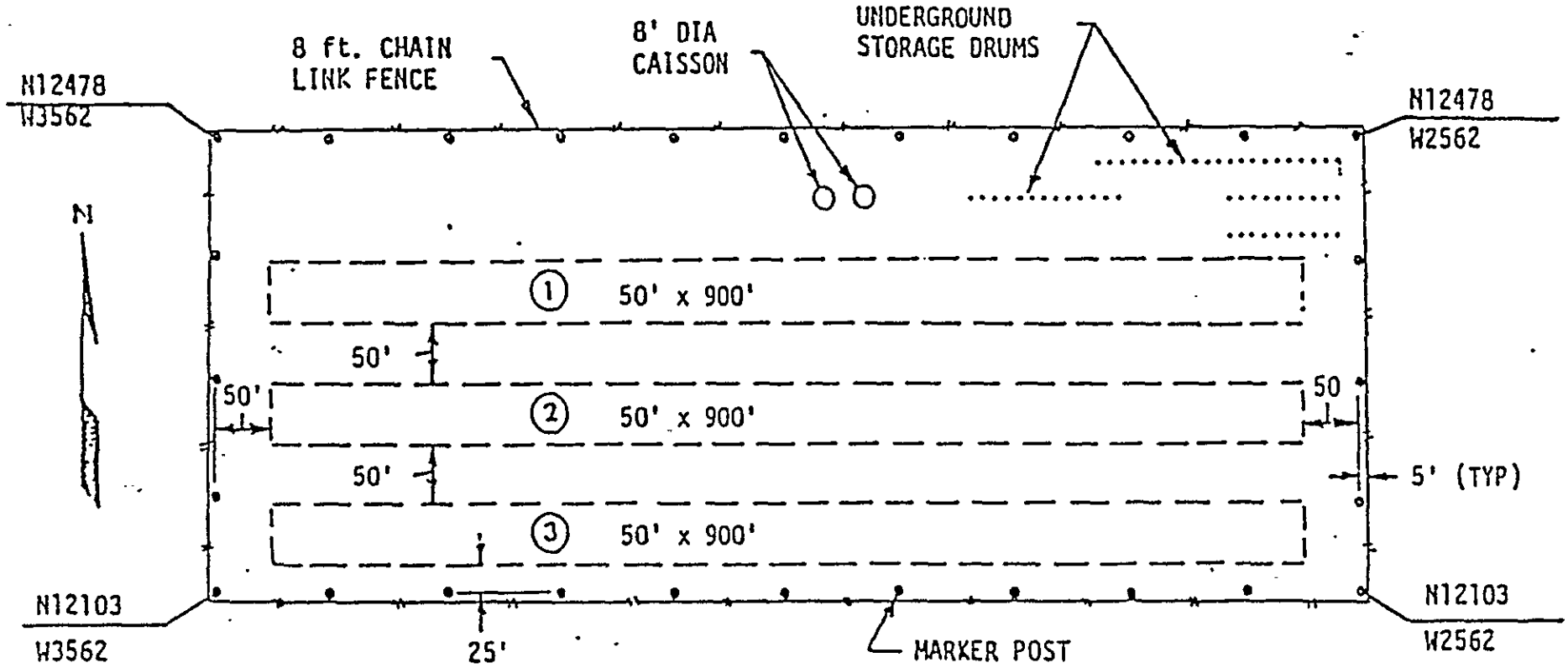
- **IMPLEMENTATION OF THE ACTION--FY94 or FY95**


Washington State
Seattle
Spokane
Richland
Portland
State Highway 24
100 D and DR Areas
100 H Area
100 N
100 KW and KE Areas
100 F Area
100 B/C Areas
Route 2N
N
Route 6
Route 4N
Gable Mtn.
Columbia River
Route 11A
State Highway 24
200 West Area
200 East Area
Route 2S
Route 4S
618-11 Burial Ground
Washington Public Power Supply System
Hanford Site Boundary
Route 24D
Arid Lands Ecology Preserve
Rattlesnake Hills
Rt. 10
400 Area (FFTF)
300 Area
1100 Area
Yakima River
3000 Area
0 5 Miles
0 5 Kilometers
Richland
700 Area

BP Map 1B


8 ft. CHAIN LINK FENCE
8' DIA CAISSON
UNDERGROUND STORAGE DRUMS
N12478 W3562
N12478 W2562
N
1 50' x 900'
50'
50'
2 50' x 900'
50
50'
5' (TYP)
3 50' x 900'
N12103 W3562
N12103 W2562
25'
MARKER POST